Panasonic
ideas for life

DMC-TZ40
Digital Camera

- 20x Optical Zoom LEICA DC Lens from 24mm Ultra Wide-angle
- New 18.1-megapixel High Sensitivity MOS Sensor and Venus Engine
- Wi-Fi® Connectivity and NFC (Near Field Communication)
- HYBRID O.I.S.+ (Hybrid Optical Image Stabilizer Plus) and Level Shot
- 1080/50p Full HD Video Recording in AVCHD Progressive and 1080/25p in MP4
- GPS and GLONASS (Global Navigation Satellite System)

Super Zoom Camera TZ40 - Featuring 20x Super Zoom, Wi-Fi®, NFC (Near Field Communication) Technology, and GPS in an Ultra Compact Body

Metrics

Dimensions (W x H x D)	108.3 x 58.9 x 27.7 mm (4.26 x 2.32 x 1.09 inch)
Weight	Approx. 172g without Battery and SD Memory Card (0.38 lb) Approx. 198g with Battery and SD Memory Card (0.44 lb)

Pixels

Camera Effective Pixels	18.1 Megapixels

Sensor

Sensor Size / Total Pixels / Filter	1/2.3-type High Sensitivity MOS Sensor / 18.9 Total Megapixels / Primary Color Filter

Lens

Aperture	F3.3 - 6.4 / Multistage Iris Diaphragm (F3.3 - 8.0(W), F6.4 - 8.0(T))
Optical Zoom	20x
Focal Length	f=4.3 - 86.0mm (24 - 480mm in 35mm equiv.) (28-560mm in 35mm equiv. in video recording)
Extra Optical Zoom (EZ)	24.5x (4:3 / 12M), 30.0x (4:3 / 8M), 38.2x (4:3 / 5M), 47.8x (Under 3M)
Intelligent Zoom	40x
Lens	LEICA DC VARIO-ELMAR 12 elements in 10 groups (3 Aspherical Lenses / 6 Aspherical surfaces / 2 ED Lens)

Panasonic
ideas for life

2- Speed Zoom	Yes
Optical Image Stabilizer/Five Axis Correction	HYBRID O.I.S.+ (On / Off) / Yes
Digital Zoom	Max. 4x

Focus

Focusing Area	Normal: Wide 50 cm - infinity / Tele 200 cm - infinity Macro / Intelligent AUTO/ motion picture: Wide 3 cm - infinity / Tele 100cm - infinity
AF Assist Lamp	Yes (On/Off)
Focus	Normal, AF Macro, Macro Zoom, Touch AF/AE Quick AF (On/Off, On in Intelligent Auto), Continuous AF(only for motion picture) AF Tracking
AF Metering	Face / AF Tracking / Touch Area (in Touch AF/AE)/ 23-Area / 1-Area / Spot

Shutter

Shutter Speed	approx. 4 - 1/2000 sec 15sec / 30sec in Sarry Sky mode

Finder

Viewfinder	-

File

File Format	Still Image: JPEG(DCF/Exif2.3) 3D Image: MPO Motion picture: AVCHD, MP4

Recording Modes

Mode Dial / Mode Button	Intelligent Auto, P, A, S, M, C1, C2,Panorama Shot, SCN, Creative Control
Creative Control mode	Expressive, Retro, High Key, Low Key, Sepia, Dynamic Monochrome, Impressive Art, High Dynamic, Cross Process, Toy Effect, Miniature Effect, Soft Focus, Star Filter, One Point Color
Still Image Scene Mode	Portrait, Soft Skin, Scenery, Sports, Night Portrait, Night Scenery, Hand Held Night Shot, HDR, Food, Baby1, Baby2, Pet, Sunset, High Sensitivity, Starry Sky, Glass Through, Underwater, High Speed Video, 3D Photo
Continuous Shooting Mode	Full- Resolution Image: 10 frames/sec Max. 6 images with AF Tracking: 5 frames/sec, 2 frames/sec Max.100 images Intelligent Burst Shooting High- speed Burst: approx. 40 frames/sec (recorded in 5M/3M/0.3M for 4:3, 4.5M/2.5M/0.3M for 3:2, 3.5M/2M/0.2M for 16:9, 3.5M/2.5M/0.2M for 1:1) approx. 60 frames/sec (recorded in 2.5M/0.3M for 4:3, 3M/0.3M for 3:2, 3.5M/0.2M for 16:9, 2M/0.2M for 1:1) Flash burst shooting

Motion Picture Recording (*2)

HD Video	1920 x 1080 pixels, 50p (FHD: 28Mbps / AVCHD) (Sensor Output is 50fps)

Panasonic
ideas for life

	1920 x 1080 pixels, 50i (FHD: 17Mbps / AVCHD) (Sensor Output is 50fps) 1280 x 720 pixels, 50p (HD: 17Mbps / AVCHD) (Sensor Output is 50fps) 1920 x 1080 pixels, 25fps (FHD: 20Mbps / MP4) 1280 x 720 pixels, 25fps (HD: 10Mbps / MP4)
STD Video	640 x 480 pixels, 25fps (VGA: 4Mbps / MP4)
High Speed Video	1280 x 720 pixels, 100fps (HD) 640 x 480 pixels, 200fps (VGA)

Continuous recordable time (motion pictures)

AVCHD	approx. 75 min (FHD / 60p), 80min (FHD / 60i)
MP4	approx. 90 min (FHD)

Actual recordable time (motion pictures)

AVCHD	approx. 30 min (FHD / 60p), 35min (FHD / 60i)
MP4	approx. 40 min (FHD)

Exposure Parameters

Exposure	Program AE, Aperture Priority AE, Shutter Priority AE, Manual
Exposure Compensation	1/3 EV step, +/-2 EV
Auto (AE) Bracketing	1/3 -1EV step, Max +/-1EV, 3 frames
Light Metering	Intelligent Multiple / Center Weighted / Spot
ISO Sensitivity	Auto / i.ISO / 100 / 200 / 400 / 800 / 1600 / 3200 / 6400 * (* Extended ISO) High Sensitivity mode (ISO 1600-6400)

Picture Quality

Still Picture Recording	[1:1] 3664x3664 (10.5M) / 2992x2992 (7.5M EZ) / 2448x2448 (6M EZ)/ 1920x1920 (3.5M EZ) / 1536x1536 (2.5M EZ) / 480x480 (0.2M EZ) [4:3] 4896x3672 (18M) / 4000x3000 (12M EZ) / 3264x2448 (8M EZ)/ 2560X1920 (5M EZ) / 2048X1536 (3M EZ) / 640x480 (0.3M EZ) [3:2] 4896x3264 (16M) / 4000x2672 (10.5M EZ) / 3264x2176 (7M EZ)/ 2560x1712 (4.5M EZ) / 2048x1360 (2.5M EZ) / 640x424 (0.3M EZ) [16:9] 4896x2752 (13.5M) / 4000x2248 (9M EZ) / 3264x1840 (6M EZ)/ 2560x1440 (3.5M EZ) / 1920x1080 (2M EZ) / 640x360 (0.2M EZ)
Image Quality	Fine / Standard (3D mode: MPO Fine / MPO Standard)
White Balance	Auto / Daylight / Cloudy / Shade / Incandescent / White Set White Balance Adjustment (Except Auto)
Photo Style / Film Mode	-
Color Mode / Color Effect / My color	Color Mode : Standard, Black&White, Sepia, Vivid (in P, A, S, M), Happy (only in iA mode)
Aspect Bracketing	-

Other

Digital Red Eye Correction (Red-Eye Removal)	Yes
GPS	Yes(GPS / GLONASS) / Map / GPS LOG
Wi-FI	IEEE 802.11b/g/n 2412MHz - 2462MHz (1-11ch)

Panasonic
ideas for life

	2412MHz - 2462MHz (1-11ch) WPA / WPA2 Infurastracture mode / WPS / Wi-Fi Direct Wi-Fi Button
NFC	Yes
Zoom in Motion Picture	Yes
Self Timer	2sec / 10sec

Display

Playback Mode	All, Slideshow, Filtering Play(Picture Only, Video Only, 3D Play, GPS Area Play, Map, Travel, Category Selection, Select Date, Favorite), Calendar
Thumbnails / Zoomed Playback	12,30-thumbnails / Yes (Touch Magnification)
Calendar Display / Dual- Image Playback	Yes / No
Set Favorites / Rotate Image	Yes / No
Show Histogram	Yes
Show Highlights	-
DPOF Print Setting / Set Protection	Yes / Yes

Edit

Retouch	Creative Retouch / Auto Retouch
Resize / Cropping / Aspect Conv. / Leveling	Yes / Yes / No / No
Copy / Title Edit / Text Stamp	Yes / Yes / Yes
Cut Animation	Yes
Video Divide	Yes
PictBridge Support	Single / Multi / All / Favorites / DPOF

Setup

OSD language	Japanese, English, German, French, Italian, Spanish

Monitor

LCD Monitor	7.5cm(3.0") TFT Touch Screen LCD Display (920K dots), AR Coating, Multi-Touch Field of View : approx. 100% AUTO Power Monitor mode, Power Monitor mode

Flash

Built- in- Flash	Auto, Auto/Red-eye Reduction, Forced On, Slow Sync./Red-eye Reduction, Forced Off, 0.6 - 6.4m (Wide/ISO Auto), 1.0 - 3.3m (Tele/ISO Auto)

Media

Recording Media	Built-in Memory, SD Memory Card, SDHC Memory Card, SDXC Memory Card
Built- in- Memory	Approx. 12MB TBD

Panasonic
ideas for life

Audio

Microphone / Speaker	Stereo / Mono

Interface

Interface	microHDMI, AV Output (PAL/NTSC), USB(AV/USB Multi)

Power

Power	Li-ion Battery Pack (3.6V / 1250mAh / 4.5Wh) AC Adaptor (Input: 110-240V AC)(Included, connect with USB cable, playback only)
Battery life (approx.)	300 pictures (CIPA Standard)*1

Standard Package

Included Software	PHOTOfunSTUDIO 9.1 PE Adobe Reader
Standard Accessories	Battery Pack, AC Adaptor, USB Cable, Hand Strap, DVD-ROM
NOTE	*1 Recording conditions by CIPA standard - CIPA is an abbreviation of [Camera & Imaging Products Association]. - Temperature: 23 oC (73.4 oF)/Humidity: 50%RH when LCD monitor is on. - Using a Panasonic SD Memory Card (32 MB). - Using the supplied battery. - Starting recording 30 seconds after the camera is turned on. (When the optical image stabilizer function is set to [ON].) - Recording once every 30 seconds with full flash every second recording. - Rotating the zoom lever from Tele to Wide or vice versa in every recording. - Turning the camera off every 10 recordings and leaving it until the temperature of the battery decreases. *2 - These are standard times taken at a temperature of 23 oC (73.4 oF) and a humidity of 50%RH. - The time available for recording varies depending on the environment, the interval between recordings, and the manner of use. - Actual recordable time is the time available for recording when repeating actions such as switching the power supply [ON] / [OFF], starting/ stopping recording, zoom operation etc. -Maximum time to record motion pictures continuously with [AVCHD] is 29 minutes 59 seconds. -Maximum time to record motion pictures continuously with [MP4] is 29 minutes 59 seconds or up to 4 GB.